

Amendments to the Specification:

Please amend the paragraph beginning on page 11, at line 28 as shown below:

Referring now to Figure 5, the block diagram illustrating a remote sensor according to an embodiment of the present invention is shown. Remote sensor 128 is designed to measure current ~~draw~~ drawn by appliance 120. Remote sensor 128 includes AC receptacle 160 and AC plug 162 allowing remote sensor 128 to be inserted between a power cord for appliance 120 and a power outlet such as power cable 36 and outlet 38, respectively, illustrated in Figure 1. Current sensor 164 senses current on a wire running between receptacle 160 and plug 162. Current sensor 164 may be a low value resistor, current transformer, hall effect sensor, and the like. Buffer amplifier 166 amplifies the output of current sensor 164 for a peak detection circuit, shown generally by 168. The peak current level is sampled by an analog-to-digital converter in microcontroller 170.

Please amend the paragraph beginning on page 16, at line 24 as shown below:

The search technique illustrated in Figure 7, namely rapidly searching up through a sequence then, after receiving a sensor signal, reversing the order and slowly searching down through the sequence, is one of many search techniques that can be used to identify the proper activation scheme. For example, a single slow search may be used. Another technique is to rapidly search up through the sequence then ~~the~~, after receiving a sensor signal, starting at some point within the sequence already transmitted and searching out in both directions. The point chosen may be based on knowledge about expected delays between transmitting the correct activation signal and receiving the resulting sensor signal.